ICSC: 1560



# NITROCELLULOSE (less than 12.6% nitrogen )

Date of Peer Review: October 2005

Cellulose nitrate Cellulose tetranitrate

Pyroxillin

CAS # 9004-70-0

 $C_{12}H_{16}(ONO_2)_4O_6$ 

RTECS # QW0970000

Molecular mass: 504.3

UN # (see Notes) EC Index # 603-037-01-3

EC Index # 603-037-01-3		
ACUTE HAZARDS / SYMPTOMS	PREVENTION	FIRST AID / FIRE FIGHTING
Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Water in large amounts.
		In case of fire: keep drums, etc., cool by spraying with water.
	Ventilation.	Fresh air, rest.
	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Redness.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
	Do not eat, drink, or smoke during work.	Rinse mouth.
DISPOSAL	PACKAGING & LABELLING	
Remove all ignition sources. Personal protection: P2 filter respirator for harmful particles. Keep wet. Collect the spill in covered containers. Carefully collect remainder, then remove to safe place.  EU Classification Symbol: F R: 11 S: (2-)-16-33-37/39 UN Classification		
/ RESPONSE	STORAGE	
: TEC (R)- see Notes	Fireproof. Well closed. Separated from oxidants, bases, acids. Keep in a well-ventilated room.	
	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.  Redness.  DISPOSAL  Personal protection: P2 particles. Keep wet. Collect ers. Carefully collect safe place.	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.  Ventilation.  Protective gloves.  Redness.  Safety goggles.  Do not eat, drink, or smoke during work.  DISPOSAL  PACKAGING  PACKAGING  PACKAGING  S. Personal protection: P2 particles. Keep wet. Collect ers. Carefully collect safe place.  RESPONSE  TEC (R)- see Notes  NO open flames, NO sparks, and NO smoking.  NO open flames, NO sparks, and NO smoking.  PO open flames, NO sparks, and NO smoking.  Ventilation.  Protective gloves.  PACKAGING  Symbol: E R: 11 S: (2-)-16-33-37/39 UN Classification  STOR

IPCS International Programme on Chemical Safety









Prepared in the context of cooperation between the International Programme on Chemical Safety and the Commission of the European Communities © IPCS, CEC 2005

SEE IMPORTANT INFORMATION ON BACK

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# NITROCELLULOSE (less than 12.6% nitrogen )

#### **IMPORTANT DATA**

## PHYSICAL STATE; APPEARANCE:

WHITE SOLID IN VARIOUS FORMS

#### **CHEMICAL DANGERS:**

Spontaneously flammable when dry. The substance decomposes rapidly on burning causing fire and explosion hazard, producing nitrogen oxides. Reacts with oxidants, bases and acids.

#### **OCCUPATIONAL EXPOSURE LIMITS:**

TLV not established. MAK not established.

#### **EFFECTS OF SHORT-TERM EXPOSURE:**

See Notes.

#### PHYSICAL PROPERTIES

Relative density (water = 1): 1.66

Solubility in water: none

#### **ENVIRONMENTAL DATA**

#### **NOTES**

The commercial products are formulated with 30-35% of water, or ethanol, or 1-butanol or Isopropanol. Carrier solvents used in commercial formulations may change physical and toxicological properties. If the substance is formulated with solvents also consult the ICSCs of these materials. The formulation with more than 12.6% nitrogen is used exclusively for the explosives; EU classification: Index number 603-037-00-6, symbol E, R:1-3, S:(2-)35.

Nitrocellulose, dry or wetted with less than 25% water (or alcohol) by weigth: UN 0340; UN Hazard class 1.1D; Transport Emergency Card: TEC (R)-10G1.1.

Nitrocellulose, unmodified or plasticized with less than 18% plasticizing substance: UN 0341; UN Hazard class 1.1D; Transport Emergency Card: TEC (R)-10G1.1.

Nitrocellulose, wetted with not less than 25% alcohol by weigth: UN 0342; UN Hazard class: 1.3C; Transport Emergency Card: TEC (R)-10G1.3.

Nitrocellulose, plasticized with not less than 18% plasticizing substance by weight: UN 0343; UN Hazard class 1.3C; Transport Emergency Card: TEC (R)-10G1.3.

Nitrocellulose, with water, not less than 25% water by weigth: UN 2555; UN Hazard class: 4.1; UN Pack Group: II; Transport Emergency Card: TEC (R)-41S2555.

Nitrocellulose, with alcohol, not less than 25% alcohol by weigth, and not more than 12.6% nitrogen: UN 2556; UN Hazard class: 4.1; UN Pack Group: II; Transport Emergency Card: TEC (R)-41S2556.

Nitrocellulose, with not more than 12.6% nitrogen dry weight, mixture with or without plasticizer, with or without pigment: UN 2557; UN Hazard class: 4.1; UN Pack Group: II; Transport Emergency Card: TEC (R)-41S2557.

### ADDITIONAL INFORMATION

**LEGAL NOTICE** 

Neither the CEC nor the IPCS nor any person acting on behalf of the CEC or the IPCS is responsible for the use which might be made of this information

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See Also:

Toxicological Abbreviations